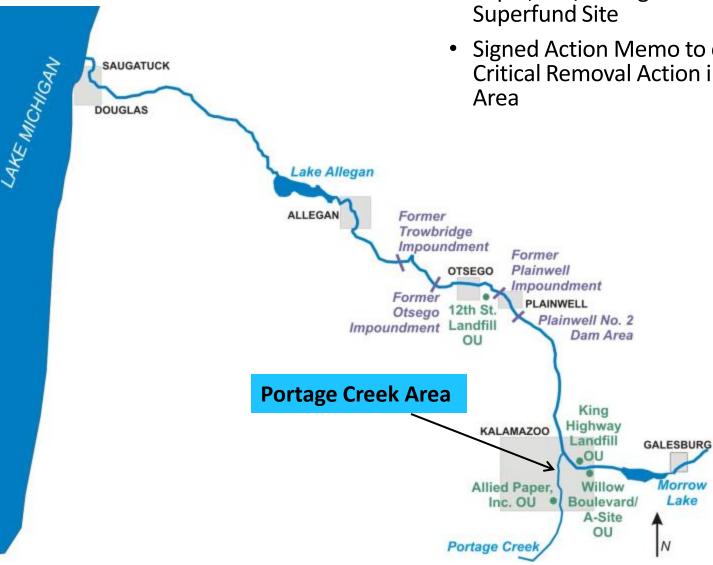
# Portage Creek Area Time Critical Removal Action

Progress Update
Public Meeting
5/31/2012

### Overview



- Portage Creek Area is part of the Allied Paper, Inc./Portage Creek/ Kalamazoo River
- Signed Action Memo to complete a Time-Critical Removal Action in the Portage Creek

# Investigation Results

- 1993-2000 Remedial Investigation/Feasibility Study (RI/FS)
  - Series of transects sampled
  - Highest PCB concentration 79 mg/kg
- 2008 Supplemental RI/FS
  - Target sediment probes and depositional features
  - Highest PCB concentration 300 mg/kg
- 2010 MDNRE (now MDEQ)sampling
  - Define hotspots
  - Highest creek sediment PCB concentration 590 mg/kg
  - Highest floodplain PCB concentration 72 mg/kg

# Cleanup Performance Standards/Goals (Standard 10 mg/kg for both sediment and floodplain soil)

- In-stream sediment goal = 1 mg/kg with 6" over-dredge
  - SA6 confirmatory samples (5 taken) to date < 1 mg/kg
  - Range non-detect to 0.87 mg/kg
- Floodplain soil goal = 5mg/kg with 6" over-dredge
  - All SA7 confirmatory samples (5 taken) < 5 mg/kg</li>
  - Range non-detect to 1.26 mg/kg
- Approximately 17,000 yd<sup>3</sup>
- Dredge depths range 12" 56" over entire area

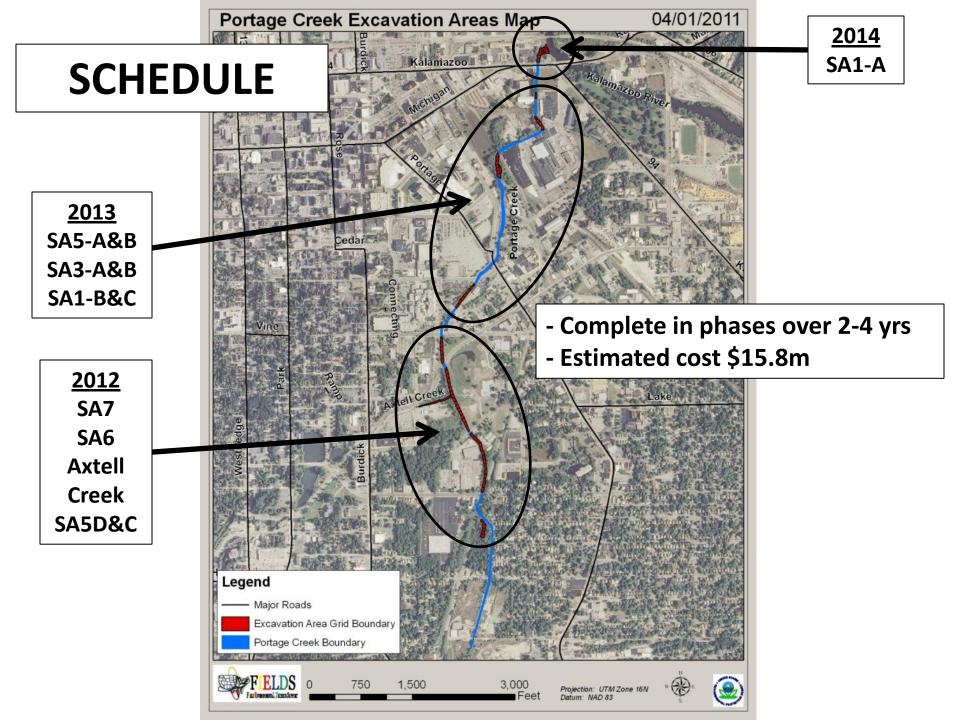




'Springfield Belle'
Wastewater
Treatment Plant

Staging /
De-watering
Pad





## **Operations Overview**

### **Site Preparation**

- Clear & grub for access
- Pre-survey (structural feature, engineering, precondition photo documentation, topographic/bathymetric)
- Data gap sampling (sediments, UpJohn Park, etc.)
- Access
- Area-specific controls (security, environmental, H&S)
- Isolation
  - Task 1- Cofferdam construction
  - Task 2- By-pass pumping ongoing during removal
  - Task 3- Excavation area dewatering and water treatment



# **Operations Overview (cont)**

#### **Contaminated sediment removal**

- Preliminary solidification/Load & transfer sediment to dewatering pad
- Final stabilization/solidification/prep for shipment
- Load out for disposal (subtitle D, or TSCA landfill)
- Verification sampling/re-excavate and resample as needed
- Post removal survey (Structural feature, Topographic/bathymetric)

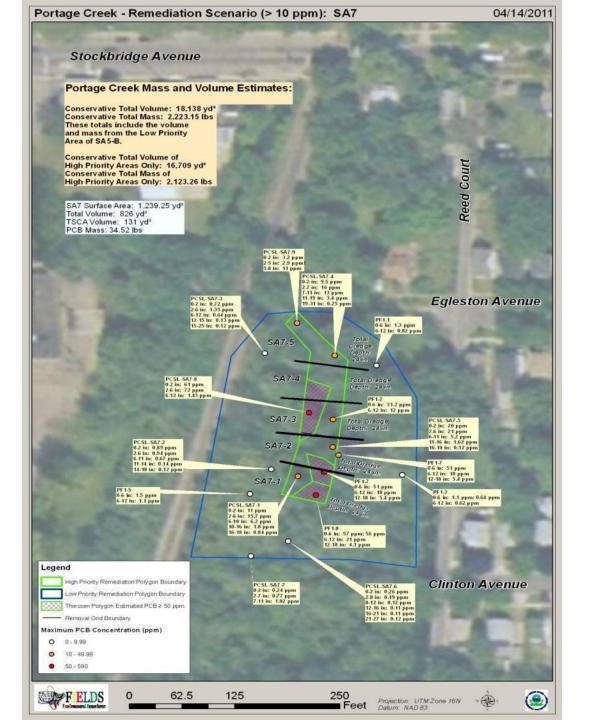
# Operations Overview (cont.)

#### **Site Restoration**

- Backfill stream channel/bank
- Cofferdam removal
- Removal area restoration planting
- Infrastructure restoration activities (fence replacement, asphalt repairs, etc.)
- Remove sediment erosion controls after revegetation
- Post condition documentation

### **SA7**

Forested wetland between Stockbridge Ave. & Reed St.











### **Excavation**



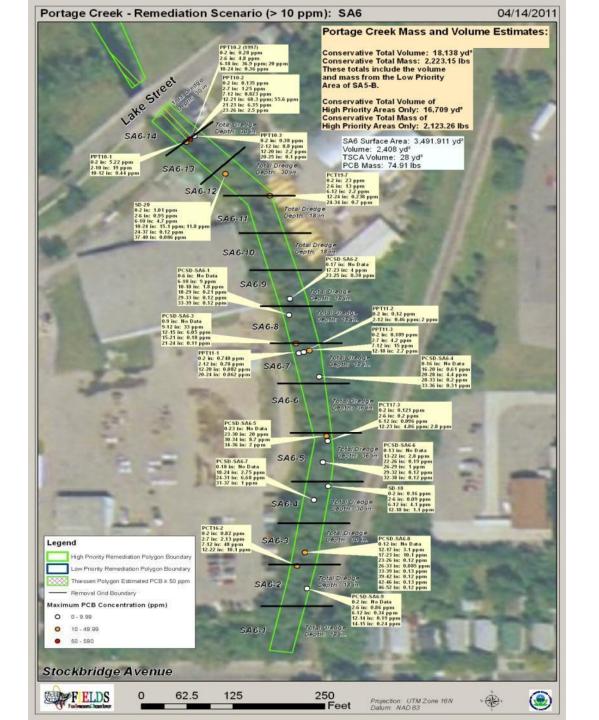
March / April 2012

03/30/2012 07:58

Approximately 1,000 yards soil removed



# SA6 Stockbridge Ave to Lake Street





# Work Area Preparation

Clearing / Grubbing & Mat Placement

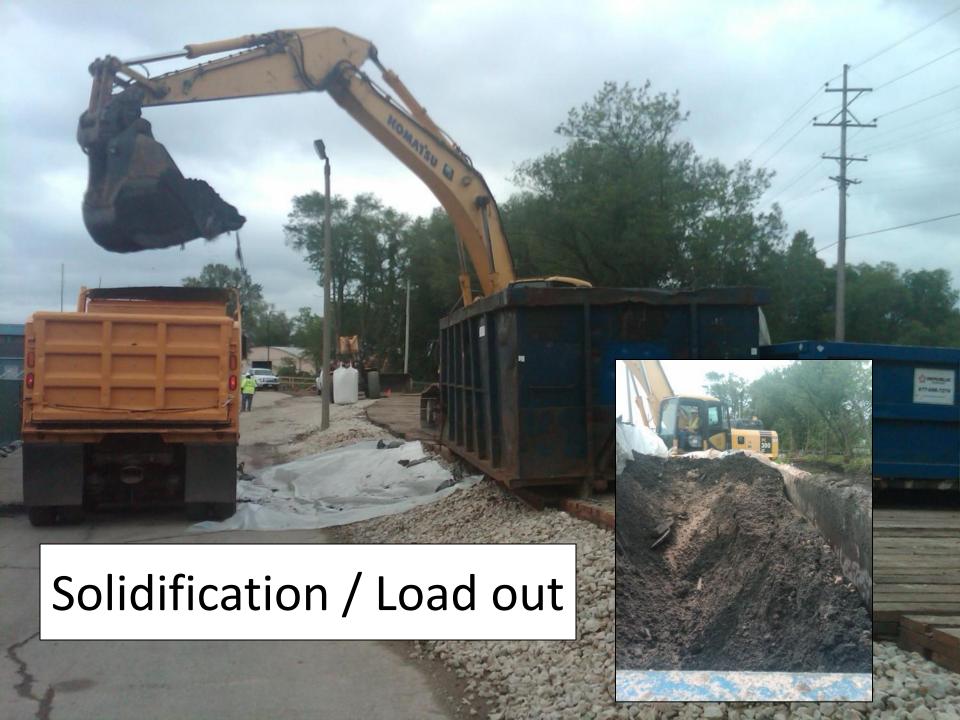














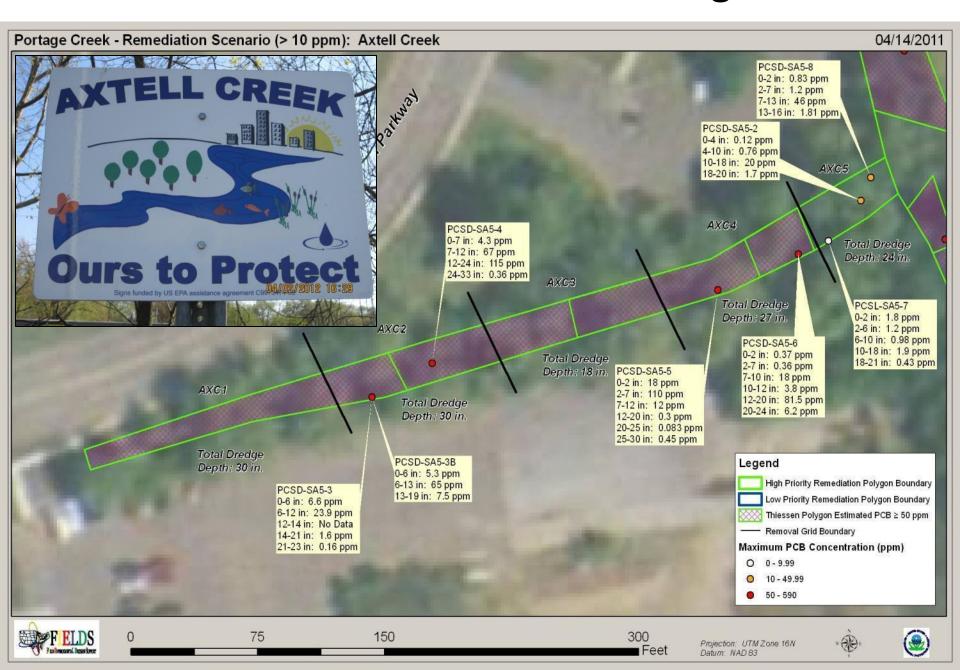






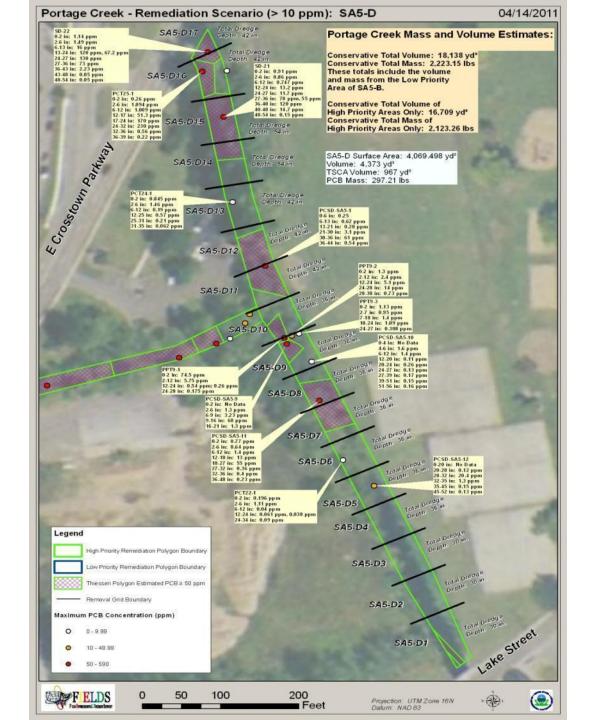


### **Axtell Creek – John Street to Portage Creek**





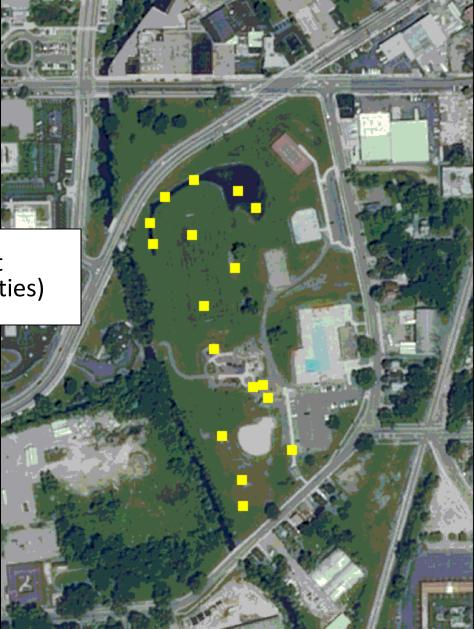
SA5-D (Upjohn
Park area)
E. Crosstown Pkwy
to
Lake Street







# Upjohn Park Sampling



All results were non-detect (below lab instrument capabilities)

### **Project Partners**

- State of Michigan
- City of Kalamazoo
  - Dept. of Public Services
  - Community Planning & Development Dept.
  - Economic Development Dept.
  - Parks & Recreation Dept.
  - School District
  - Tree Committee

#### Kalamazoo

- Nature Center
- River Cleanup Coalition
- River Watershed Council
- U.S. Fish & Wildlife Service, NOAA
- Others
  - Private property owners
  - Utilities (railroad, power, phone, gas)
  - Wildlife

### "Other" Partners







## **Work Crews**









# Questions?

### www.epaosc.org/portagecreekarea

- -POLREPs (approximately every 2 weeks)
- Bulletins / Pictures / Documents / Contacts



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